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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/016,317	12/06/2001	Srinivas Guddanti	10016586-1	4745
22879	7590	05/16/2005	EXAMINER	
HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400			LEE, SUSAN SHUK YIN	
			ART UNIT	PAPER NUMBER
			2852	

DATE MAILED: 05/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/016,317

Applicant(s)

GUDDANTI ET AL.

Examiner

Susan S. Lee

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 March 2005.
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4, 6-11, 14-16, 18-21 and 23-40 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☒ Claim(s) 1-4, 6-10, 16, 18-20, 23-25, 27-31, 33 and 35-38 is/are allowed.
6) ☒ Claim(s) 11, 14, 15, 21, 32, 34, 39 and 40 is/are rejected.
7) ☒ Claim(s) 26 is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 3/3/05.
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____

DETAILED ACTION

Upon reconsideration of the claims, the previous allowability of claims 11, 14, 15, and 32 is hereby withdrawn in view the prior art to Nishikawa (Japan, 6-35627).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 11, 14, 15, and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nishikawa (Japan, 6-35627) in view of Nakahara et al. (Japan, 11-143151).

Nishikawa discloses a printer 1 is connected with an external device such as a host computer 2 by a bidirectional interface 3. When the host computer 2 sends a printing data or a prescribed command to a printer 1, the present printing environment of the printer 1 is sent back to the host computer 2. Note abstract.

Nishikawa differs from the instant invention by not disclosing a method of sensing at least one environmental condition of an environment proximate to the image forming device.

Nakahara et al. discloses a temperature/humidity sensor 10 or an environmental sensor attached to an outside part of a printer main body for sensing humidity and temperature of the printer so that a driving control corresponding to the environment can

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be reliably improved. Note abstract from JPO and abstract from Derwent Information LTD.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the apparatus of Nishikawa with that of Nakahara et al. so that a drive control of a printer is improved in various environments as disclosed by Nakahara et al.

Claims 21, 34, 39, and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Austin et al. (6,665,089) in view of Nishikawa (Japan, 6-35627) and Nakane et al. (5,148,218).

Austin et al. discloses a printing system having a portable printer that produces hard copies (note column 1, lines 29-14). The printing system measures at least one external condition. The external condition could be an environmental condition at the locality of the print system. For instance, the external condition could be the environmental temperature, barometric pressure, atmospheric pressure, dew point, or any other climatic condition that might affect the operation of the printer system. Note column 14, lines 19-52. Since the printing system measures environmental conditions such as the ones listed before, Austin et al. implies that there are some devices used to measure temperature, barometric. pressure, and so forth. These devices would read on the instant invention's "environmental sensor configured to monitor at least one environmental condition proximate to the image forming device and to provide data

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indicative of the at least one environmental condition". The environmental conditions are measured by circuitry in a computer communicatively coupled thereto the printer (note column 15, lines 41-46). The printing system has a hardware system 1200 and the printer 100 that may receive operational power from battery 1224 during portable operation of printer 100. Note column 7, lines 35-40.

Austin et al. differs from the instant invention by not disclosing an interface configured to communicate the data indicative of the at least one environmental condition externally of the image forming device; and an internal power source configured to provide power to the sensor in an absence of power from a source external of the image forming device.

Nishikawa discloses a printer 1 is connected with an external device such as a host computer 2 by a bidirectional interface 3. When the host computer 2 sends a printing data or a prescribed command to a printer 1, the present printing environment of the printer 1 is sent back to the host computer 2. Note abstract.

Nakane et al. discloses a humidity detector 100, a temperature detector 101, timer 121, coding circuit 122, memory controller 123 and memory 124 in an image forming device are always applied night and day with a drive voltage by the chargeable battery 120. Note column 10, lines 61-65 and Fig. 10.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the apparatus of Austin with the bidirectional interface of Nishikawa so that when the portable printer is connected to a computer,

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communications from the computer to the printer and from the printer to the computer can be obtained readily as disclosed by Nishikawa; and that of Nakane et al. so that the environmental sensors and storage of data are always operating whether there is power or not supplied from outside of the image forming device.

Allowable Subject Matter

Claims 1-4, 6-10, 16, 18-20, 23-25, 27-31, 33, and 35-38 are allowed over the prior art of record.

Claim 26 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments


Applicant's arguments with respect to claims 21 and 34 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan S. Lee whose telephone number is 571-272-2137. The examiner can normally be reached on Mon. - Fri., 10:30-8:00, Second Monday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Art Grimley can be reached on 571-272-2136 or 571-272-2800 (Ext. 52). The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Susan S. Lee
Primary Examiner
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